AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED NOVEL VARIETY OF SEXUALLY REPRODUCED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WI-IICII IS HEREUNTOANNEXED AND MADE A PART MEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASESMADE AND PROVIDED HAVE BEEN COMPLIED WITH. AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IS THE SAID COPY, AND WHEREAS, upon due examination made, to the said applicant (s) is (are) adjudged TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

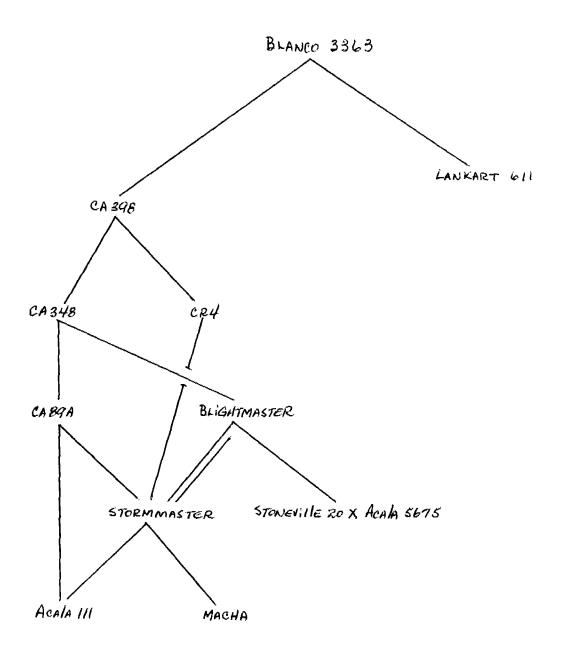
NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLI-CANT(S) FOR THE TERM OF SEVENTEEN YEARS FROM THE DATE O F THIS GRANT, SUBJECT TO '1-HE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED HIT LAW, THE RIGHT TO EX-CLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, IT, OR EXPORTING IT, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT

THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT. SEED OF THIS VARIETY (+) SHALL BE SOLD BY VARIETY NAME ONLY AS OF CERTIFIED SEED AND (2) SHALL CONFORM TO THE NUMBER OF GENERATIONS BY THE OWNER OF THE RIGHTS. (\$4 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEC.)

FORM APPROVED OMB NO. 40-R3712

## APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE

INSTRUCTIONS: See Reverse,				
1. VARIETY NAME OF TEMPORARY DESIGNATION	2. KIND MANE	PVD.	FOR OFFIC	IAL USE ONLY
Blanco 3363	Cotton	1, 3,	715	/
3. GLNUS AND SPECIES HAME	4. FAMILY NAME (Dotorios)	FILI	IG DATE	TIME A.M.
Gossypium hirsutum	Malvacea Fun		RECEIVES	CHARGES P.M.
5. NAME OF AFOLD AND	Summer of 1965			6. TELEPHONE AREA
AGRIGENIETICS CORP.	Corte			COSE AND NUMBER
Growers Seed Association	Box 1656 Lui	obock. Texas	79408	806-747-4125
JUH 5/5/86	7.00		17.45	
9. IF THE NAMED AP. LIGHTET TOTALEST OF CHORSEN,	្នុំ គន់ស្ពោធមណ្ឌិស ប្រាស្ត្រសាស សមាសាសាសាសាសាសា	ME OF INCOMPORA	i joh	TI. DAYE OF INCOR-
Cooperative Corporation		Texas		7-9-65
12. Nationand position address of appli-	uni Kirorania (25 j. 1		appliestion a	
	George Babcock Box 1656	Z ij in in i		•
Crosbyton, Texas 79322	Lubbock, Texas	3 79408		
(Plant Breeder for GSA)	(Manager of G			
MR. Noble Koepp				
13. CHECK DO I BELOW FOR EACH ATT/ CH	OUNT SELATORD:			
X 12A. Exhibit A, Origin and Bace	eding History of the Variet	: (See Section 32)	P.L. 97-777)	
X 1128. Exhibit B, Botanical Desc	riptism is the Variety			
[ ] 120. Exhibit C, Objective Pesc	ription of the variety			
🕱 120. Exhibit D. Data indicative	of Novelty -			
X) 12E. Exhibit E. Statement of the	e et six of Applicant's Ow	nership		
The applicant declares that a viable s ance of a certificate and will be replanted (See Section 52, P.1., 91-577).	_	· ·	-	<del>-</del>
14A. Does the applicatur(s) specify that				
148. Does the applicant(s) specify tha	t this variety be 140.	If "Yes," to 14B,	how many gen	érations of production
125114 100 1	9/C, UKIY 5 3 1 1 1 2 3 1 5 3	· · · · · · · · · · · · · · · · · · ·	<b></b>	4
Applicant is informed that false repre-	selitation berein can jeopt	rdine protection an	d result in per	nalries.
The undersigned applicant(s) of this suniform, and stable as required in Sec Plant Variety Protection Act (P.L. 91	tion 41 and is entitled to	=		
3-29-7/		Jac m Sty	HALA)	•
(DATE)		or M. Xu	OF APPLICA	APLT)
the second	V			
(DATE)	<del></del>	SIGNAT	THE OF APPLIC	ANT)



CR-4 carried all of the plant characteristics of Stormmaster with the exception that it was blight tolerant.

- CA398-----A strain developed from a cross between CA348 and CR-4. The strain is blight tolerant and stormproof. It has a staple length of about 1 1/16 inch and a strength of about 90,000 p.s.i.
- Lankart 611---A closed pedigreed, stormproof variety which has excellent yield potential and has a wide area of adaptability as to the regions in which it performs well.
- Blanco 3363---An early, highly stormproof, medium-long staple variety which is well adapted for stripper harvest. The variety is blight resistant (tested as resistant on races 1, 2, 5 and 6) and has good seedling vigor. It has looked very good under broadcast type plantings with high plant populations and has a wide area of adaptation as to the regions in which it performs well. It was selected from a cross made between CA398 and Lankart 611.

### LINES USED IN THE DEVELOPMENT OF BLANCO 3363

- Acala III----A western variety of the Acala Type which was of the long staple, open boll type. Acala III was not resistant to bacterial blight.

  (Xanthomonas malvacearum) Acala III was not adapted to stripper type harvest.
- Stormmaster --- A variety developed from a cross made at Lubbock, Texas, between Macha and one of the western varieties (Acala III). This gave an increase in staple length over Macha, but Stormmaster was not blight tolerant. The variety was storm resistant.
- CA89A-----A strain developed from a cross between
  Acala III and Stormmaster. It was a stormproof strain which was not blight tolerant,
  but had an increased staple length over Stormmaster.
- Blightmaster -- A variety developed from a cross between Stormmaster and a progeny of a cross between Stoneville 20 X Acala 5676. Stoneville 20 was a blight tolerant variety and this characteristic was transferred to the Blightmaster variety.
- CA348-----A blight tolerant, stormproof strain resulting from the corss of CA89A and Blightmaster.
- CR-4----- Selection made from Stormmaster by the Oklahoma Agricultural Experiment Station.

The seed obtained from the cross made in 1961 between CA398 and Lankart 611 was planted in a progeny row in 1961, and subsequent segregation and selection followed in 1962-63-64. The progeny was carried as strain CA563 and as a stabilized strain row was noted in 1964 the cotton (later to be called Blanco 3363) was put in a field increase plot.

As the seed was increased and tested during the years of 1965-70 heavy rogueing pressures were applied to eliminate any variants from the population norm. These variants were of an extremely open boll type coupled with excessive height. At the time the strain was put into field increase the variants composed approximately 1% of the population but by 1968 the occurance of any variants was extremely minimal and in the 1970 Texas Certification Tests the variety showed only .004% off types.

As evidence of stability the variety, Blanco 3363, was entered into the Texas Certification program in 1968 and was tested during the 1968-69-70 growing seasons. The variety proved stable during the three year testing program and was admitted as a certified variety at the end of the 1970 crop year. The variety has also been admitted as a patented variety under the Texas Patent act. Records of official inspections for the three years are enclosed.

1/16/74

EXHIBIT B

#### BLANCO 3363

- Seed: Seed of Blanco 3363 are of medium size with a seed index of 10 to 12. Seed are well covered with linters.
- Seedlings: Blanco 3363 has good seedling vigor.
- Root System: Blanco 3363 has a strong tap root
   with average laterals.
- <u>Plant Type:</u> Blanco 3363 is of short height, has short internodes, and has medium to short fruiting branches. Fruiting branches are usually 1 to 3 vegetative with spaced culture.
- <u>Plant Pubesence:</u> Blanco 3363 has light plant pubesence.
- <u>Leaves</u>: Leaves are medium size with dense foliage and have a medium deep cut with cupping.
- Flowers: Blanco 3363 has cream pollen and petals.

  Abundant anthers are present with the style only very slightly protruding. Medium size bracts are present.
- Bolls: Bolls are of medium size (5.85 grams per boll) and have a slightly pointed shape.
  Bolls are storm resistant. Both 4 and 5 lock bolls are present with the majority being 5 lock.
- Lint: Blanco 3363 has a lint turnout (seed cotton) of 31% to 35%, a lint index of 6.0 to 6.5, a 2.5% span length of 1.00 1.10 inches, a uniformity ratio of 41% to 45%, and a fiber strength of 85,000 to 93,000 PSI. The fiber fineness or micronaire is approximately 3.70 (based on mature fiber).
- Maturity: First bloom of Blanco 3363 occurs approximately 55 60 days after planting. The cotton has a boll period of 50 55 days

under optimum conditions and is determinate in its fruiting pattern. The crop matures in 140 to 160 days.

<u>Disease Tolerance</u>: - Blanco 3363 is blight resistant. (Tested as resistant on Races 1, 2, 5, and 6).

Mature Plant Comparison: - As stated before, Blanco 3363 is of short height, has short internodes, and has medium to short fruiting branches. Fruiting branches are usually 1 to 3 vegetative with spaced culture. The general mature plant characteristics are very similar to Lankart 57 with about the only visible difference being that Blanco 3363 has a tighter, more stormproof boll than Lankart 57.

Exhibit C

I = SPARSE (GREGG 35)

3 Seed Fuzz: 3 = HEAVY (ACALA SJ-1) 4 = OTHER (Specify)

2 = MODERATE (DPL-1)1

FORM GR-470-8 (10-2-72)

14. SEEDS: = 140

0

0 1

± 1 2 SEED INDEX (Fuzzy seed basis)

# UNITED STATES DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE GRAIN DIVISION HYATTSVILLE, MARYLAND 20782

(Cotton)

	TIVE DESCRIPTION OF COTTON (GOSSYPIUM'SI		
INSTRUCTIONS: See Reverse.	COTTON (GOSSTITOMS)	FOR OFFICIAL USE O	DNLY
Growers Seed Association		PVPO NUMBER	
ADDRESS (Street and No. or R.F.D. No., City, State, ar	nd ZIP Code)	7151	
P. O. Box 1656	•	VARIETY NAME OR TEMPORAL DESIGNATION	₹Y
Lubbock, Texas 79408		Blanco 3363	
Place the appropriate number that describes the v	racional character of this was		
Place a zero in first box (e.s. 0 8 9 or 0 9			
1. SPECIES:			
1 = GOSSYPIUM HIRSUTUM 2 = GOS	SSYPIUM BARBADENSE		
2. AREA(5) OF ADAPTION (0 = Not Tested, 1 = Not	Adapted, 2 = Adapted):		
0 DELTA	0 CENTRAL	2 HIGH PLAINS 0 E	L PASO AREA
0 WESTERN LOW HOT VALLEYS	0 SAN JOAQUIN	O OTHER (Specify)	
3. MATURITY (50% Open Boll):			
0 0 NO. OF DAYS EARLIER THAN	7 ) 1 = COKER 310	2 = DELTAPINE 16 3 = STONE	VILLE 213
	4 = PAYMASTE	R 111 5 = ACALA 1517-70 6 = AC	CALA SJ-1
0 0 NO. OF DAYS LATER THAN	$\begin{bmatrix} 7 \\ \end{bmatrix}$ 7 = LANKART	57 8 = OTHER ( <i>Specily</i> )	
4. PLANT HABIT:		1 = FOLIAGE SPARSE 2 = D	DENSE
3 1 = SPREADING 2 = INTERMEDIATE	3 = COMPACT	2 3 = OTHER (Specity)	EN3E
5. PLANT HEIGHT:			
6 0 CM. SHORTER THAN	5 ) 1 = COKER 310	2 = DELTAPINE 16 3 = STONE	VILLE 213
	4 = PAYMASTE	R 111 5 = ACALA 1517-70 6 = A	CALA SJ-1
CM. TALLER THAN	7 = LANKART	57 8 = OTHER (Specify)	
6. MAIN STEM:			
2 1 = LAX 2 = ASCENDING 3 = ERECT	14 CM. TO FIRST FRUITING BRANCH	0 8 NO. OF NODES TO FIRST FRU (from cotyledonary node)	
7. LEAF: 8. LEAF PUBESCENSE		= GLABROUS (HAIRS AS SPARSE AS D <sub>2</sub> SM EAF) 3 = PUBESCENT (STONEVI	
1 1 4 WIDEST LEAVES 1 5 2 - SMOOTH	LEAF (DELTAPINE SMOOTH L UBESCENCE (H <sub>1</sub> OR H <sub>2</sub> ) 5	= OTHER (Specify) Light Pubesc	ense 🖅
9. LEAF COLOR:			
131	GREEN 3 = DARK GREEN	(Acala-442)   4 = RED	
5 = OTHER (Specify)			
1 1 = NORMAL 2 = OKRA 3 = SUPER	rokra 4 = other <i>(Speci</i>	fy)	
11. FLOWER:			
2 1 = NECTARILESS 2 = NECTARIED			
Petals: 1 = CREAM 2 = YELLOW	Pollen: 1 = CREAM	2 = YELLOW	
12. FRUITING BRANCH TYPE:			
2, 31 = CLUSTER 2 = SHORT 3 = NORMAL	1 = DETERMINATE	2 = INDETERMINATE	
13. GOSSYPOL CONDITION:	0		
3 1 = GLANDLESS 2 = REDUCE D GLANDS 4 = OTHER (Specify)	3 = NORMAL GLANDS	1 = NORMAL BUD GOSSYPOL 2 = HIGH BUD GOSSYPOL	
OTHER (Specus)			

FORM GR-470-8 (REVERSE)	· · · · · · · · · · · · · · · · · · ·		
15. BOLLS:	<del> </del>		
2 Locules: $2 = 4.5$	2 8 NO. SEEDS PER E	BOLL 3 2 7 LINT PERCE	ENT 3 5 MM. DIAMETER
2 Pitted: 1 = NONE 2 = FINELY 3 = COURSELY	5 8 5 GRAMS SEED		BROADER AT BASE BROADER AT MIDDLE
2 = STORM RESI 3 = OPEN (DELT	DF (WESTBURN 70) ISTANT (LANKART 57) TAPINE 16)	Shape: 1 = LENGTH < WIDTH 2 = LENGTH = WIDTH 3 = LENGTH > WIDTH	
16. BRACTEOLES:			
Breadth: 1 = LENGTH < V	WIDTH 2 = LENGTH = WIDTH 3		<u> </u>
	= COURSE 4	Teeth: 1 = 3.4	
17. YIELD: Compared to-	_		
0 6 1 PERCENT LESS	THAN	l = COKER 310 2 = DELTAPIN 4 = PAYMASTER 111 5 = AC	NE 16 3 = STONEVILLE 213
	E THAN	) 6 = ACAL-A SJ-1 7 ≈ L/	ANKART 57
18 FIBER LENGTH (Complete o	one or more of the following and give	e the means):	<del></del>
4 3 SPAN LENGTH 5	0% 1 0 5	SPAN LENGTH 2.5%	U.H.M. LENGTH
MEAN LENGTH	3 3	STAPLE LENGTH 32nd INCHES	
UNIFORMITY RATIO		UNIFORMITY INDEX (50% SPAN/2.5% S	5PAN)
19. FIBER STRENGTH AND ELO	INGATION:		
0 9 1 1,000 P.S.I.		ELONGATION E	STILOMETER TO
3 7 0 MICRONAIRE RE		YARN STRENGTH (Give test method)	STILOMETERT
20. DISEASE: (0 = Not Tested,	1 = Susceptible, 2 = Resistant)		
1 VERTICILLIUM WILT	0 FUSARIUM WILT	O ROOT KNOT NEMATODE	BACTERIAL BLIGHT (Race 1)
BACTERIAL BLIGHT (Race 2)	ASCOCHYTA BLIGHT	PHYMATOTRICHUM ROOT ROT	0 RHIZOCTONIA
0 ANTHRACNOSE	0 RUST	OTHER (Specify)	
21. INSECT: (0 = Not Tested, 1	= Susceptible, 2 = Resistant)		W
0 BOLL WEEVIL	O APHID	0 FLEAHOPPER	0 LEAFWORM
0 FALL ARMYWORM	0 GRASSHOPPER	0 LYGUS	0 PINK BOLLWORM
0 STINKBUG	0 THRIP	0 CUTWORM	O SPIDERMITE
OTHER (Specify)			

**REFERENCES:** The following publications may be used as a reference aid for the standardization of terms and procedures for completing this form:

(1) Brown, Harry B., and J. O. Ware, 1958, Cotton, McGraw-Hill Book Company, Inc., New York.

(2) Lewis, C. F., and H. H. Ramey, Jr., 1971, 1970 Regional Cotton Variety Tests, ARS 34-130, United States Department of Agriculture.

COLORS: Nickerson's or any recognized color fan may be used to determine flower color of the described variety.

Exhibit D

'Blanco 3363'

13D. Exhibit D:

'Blanco 3363' is most similar to 'Lankart 57' in plant characteristics but differs in having a tighter, more stormproof boll, a 1.67 grams smaller boll (5.85 versus 7.52), and is resistant to Bacterial blight race 1 while 'Lankart 57' is not. 'Blanco 3363' also has a 0.03 inch longer (1.05 versus 1.02), 16,000 PSI stronger (91,000 versus 75,000), and 0.30 finer (3.70 versus 4.00 micronaire) fiber.

5-24-74 (Date) (Signature)

Director of Research (Official Capacity)

#### DATA INDICATIVE OF NOVELTY

As an indication of novelty, I would like to compare the fiber properties of Blanco 3363 to Lankart 57. As previously stated, Blanco 3363 is very similar to Lankart 57 in mature plant characteristics and it is only in the fiber properties that the two varieties widely differ.

#### FIBER PROPERTY COMPARISON

- Strength Blanco 3363 has consistently shown to have higher strength than Lankart 57. Data from the 1969 Irrigated Cotton Variety Test conducted at Lubbock, Texas, Lankart 57 had a PSI of 75.6 X 1000 while Blanco 3363 had a PSI of 92.3 X 1000. (see attached sheets from 1969 Research Report No. 70-1) In 1970 irrigated test, Lankart 57 had a PSI of 75.0 X 1000 while Blanco 3363 had a PSI of 102.0 X 1000. (see attached sheets)
- Length In 1969 tests, Blanco 3363 showed a 2.5% span of 1.10 compared to Lankart 57 with a 2.5% span of 1.04. (see attached sheets) In 1970 tests, Blanco 3363 showed a 2.5% span of 1.00 compared to Lankart 57 with a 2.5% span of .99. (see attached sheets) Blanco 3363 consistently shows a slight length increase over Lankart 57.
- Disease Tolerance In tests conducted by Dr. Levon
  Ray of the Lubbock Experiment Station,
  Blanco 3363 showed resistance to Race l
  of bacterial blight while Lankart 57 did
  not prove resistant to this Race.
- Boll Size Blanco 3363 shows to have a smaller boll size (5.92) than Lankart 57 (7.51) in the Lubbock test of 1969 as well as in the Tulia, Texas test where Blanco 3363 had a boll size of 5.79 compared to Lankart 57 with 7.54, resulting in an average of 5.85 for Blanco 3363 and 7.52 for Lankart 57.

Micronaire - The micronaire reading of Blanco 3363 is consistently lower than Lankart 57. (see attached sheets)

#### STATEMENT OF OWNERSHIP

Blanco 3363 is a variety selected from a cross between CA398 and Lankart 611. The original cross was made by Dr. Levon Ray of the Texas Agricultural Experiment Station at Lubbock, Texas. In 1965 the strain CA563 (later to be called Blanco 3363) was planted on the Don Anderson farm near Crosbyton, Texas.

After observing the strain in 1965 the staff of Delta, Inc., a seed company which Mr. Anderson owned at the time realized that the strain might have potential as an improved variety. The staff of Delta, Inc. in the years of 1966-67-68 applied heavy rogueing pressures toward the stabilization of a uniform population. The seed was released as breeders seed to Delta, Inc. in 1968 from the Texas A & M Experiment Station System and was filed on for certification by Delta, Inc. under the Texas Certification Program.

In 1969 Delta Inc. was purchased by Growers Seed Association of Lubbock, Texas, and with the purchase, Blanco 3363 became the property of Growers Seed Association of Lubbock, Texas.

As of date the variety Blanco 3363 is wholly owned by Growers Seed Association of Lubbock, Texas.

# ASSIGNMENT OF

# CERTIFICATES AND APPLICATIONS OF PLANT VARIETY PROTECTION

WHEREAS, GROWERS SEED ASSOCIATION, a Marketing Cooperative Association organized under the laws of the State of Texas, whose address is P.O. Box 1656, Lubbock, Texas 79408, did make applications for Certificates of Plant Variety Protection with the Plant Variety Protection Office of the United States Department of Agriculture which Applications and Certificates are numbered and bear the dates as follows:

7400089	November 24, 1975		for 'GSA 71'
76TQ007	March 18, 1977		for 'GSA 75'
710051	September 30, 1974	•	for Blanco 3363
740088	November 24, 1975		for Stripper 31A
790071	April 24, 1980		for 'GSA 74'
Pending Ap	pplication		for 'GSA 78'

Applications and Certificates of Plant Variety Protection, and all interests therein, to and under the same and have the sole right to make this assignment; and

WHEREAS, TEXAS BANK FOR COOPERATIVES, a corporation organized under the laws of the United States of America, whose mailing address is P.O. Box 1424, Houston, Texas 77001, is desirous of acquiring the entire right, title and interest in and to the said Applications and Certificates of Plant Variety Protection;

NOW, THEREFORE, in consideration of and exchange for the sum of Ten Dollars and no/100 (\$10.00) paid in hand by GROWERS SEED ASSOCIATION, and other good and valuable consideration, in receipt of which is hereby acknowledged, GROWERS SEED ASSOCIATION, has sold, assigned, transferred and sent over to the TEXAS BANK FOR COOPERATIVES, the said Applications and Certificates of Plant Variety Protection, the same to be held and enjoyed by the TEXAS BANK FOR COOPERATIVES for its own use and enjoyment and the use and enjoyment of its successors, assigns or other legal representatives, to the end of the term for which said Applications and Certificates of Plant Variety Protection are granted or reissued, as fully and entirely as the same would have been held and enjoyed by GROWERS SEED ASSOCIATION if this assignment and sale had not been made, together with all claims for damages by reason of past infringement of said Applications and Certificates with the right to sue for and collect the same for its own use and enjoyment and

for the use and enjoyment of its successors, assigns or other legal representatives.

IN WITNESS WHEREOF, I have hereunto set my hand and seal this 28th day of July, 1981.

GROWERS SEED ASSOCIATION

By Chairman Chairman

THE STATE OF TEXAS

COUNTY OF LUBBOCK

BEFORE ME, the undersigned authority, on this day personally appeared RD M&CallSTER, Chairman of GROWERS SEED ASSOCIATION, a corporation, who acknowledged to me that he executed the above and foregoing instrument as the act and deed of said corporation and for the purposes and consideration therein expressed and in the capacity therein stated.

GIVEN UNDER MY HAND AND SEAL OF OFFICE, this the 28th day of July, 1981.

Notary Public in and for LUBBOCK County, T E X A S.

C.C.Bloodworth

Expires 5-21-84

#### ASSIGNMENT OF

### PLANT VARIETY PROECTION CERTIFICATES

WHEREAS, GROWERS SEED ASSOCIATION, a marketing cooperative association organized under the terms of the State of Texas, whose address is P.O. Box 1656, Lubbock, Texas 79408, did make applications for and secure Certificates of Registration with the United States Plant Variety Protection Office which Certificates are numbered and bear the dates as follows:

Plant Variety Registration No.	<u>Variety</u>	Filing Date
7400089	for 'GSA 71'	November 24, 1975
76TQ007	for 'GSA 75'	March 18, 1977
7100051	for Blanco 3363	September 30, 1974
7400088	for Stripper 31A	November 24, 1975
7900071	for 'GSA 74'	April 24, 1980
79 <b>0</b> 0072	for 'GSA 78'	June 19, 1980

WHEREAS, the TEXAS BANK FOR COOPERATIVES, a bank for cooperatives duly organized under the Farm Credit Act as amended, whose mailing address is P.O. Box 1424, Houston, Texas 77001, is the owner and holder of certain indebtedness of GROWERS SEED ASSOCIATION which are secured by certain liens and security interests including but not limited to general intangibles consisting of all trade names, trademarks, service marks, goodwill, germ plasm, proprietary seed rights, trade secrets, and all seed varieties and hybrids (the "Property"); and

WHEREAS, the maturity of the indebtednesses has now been accelerated and is now past due and owing and the TEXAS BANK FOR COOPERATIVES has taken possession of the collateral covered by the security instruments, and has the right pursuant to the security instruments and applicable laws

ASSIGNMENT OF PLANT VARIETY PROTECTION CERTIFICATES - Page 1

to pursue its remedies against the collateral, including without limitation, the selling and offering for sale thereof, as provided for under the security instruments and applicable law; and

WHEREAS, the TEXAS BANK FOR COOPERATIVES, as secured party, has exercised its right in the collateral of GROWERS SEED ASSOCIATION, as debtor, and is now desirous of selling certain items of collateral under lien at a private sale pursuant to Article 9 of the Texas Business and Commerce Code; and

WHEREAS, the TEXAS BANK FOR COOPERATIVES has the sole right to make this assignment; and

WHEREAS, AGRIGENETICS CORPORATION ("Buyer"), a corporation organized under the laws of the State of New Mexico, whose mailing address is 14142 W. 20th Avenue, Golden, Colorado 80401, is desirous of acquiring the entire right, title and interest in and to general intangibles formerly owned by GROWERS SEED ASSOCIATION together with the Certificates of Plant Variety Protection as identified from the TEXAS BANK FOR COOPERATIVES ("Seller"), through such a private sale under Article 9 of the Texas Business and Commerce Code.

NOW, THEREFORE, in consideration of and exchange for the sum of Ten and No/100 Dollars (\$10.00) paid in hand by Buyer, and other good and valuable considerations, the receipt and sufficiency of which is hereby acknowledged, the Seller, as secured party, has sold, assigned, transferred and sent over, through a private sale under Article 9 of the Texas Business and Commerce Code, to Buyer, all the Seller's interest and all the GROWERS SEED ASSOCIATION'S interest in the above-described Certificates of Plant Variety Protection and that part of the goodwill of the business connected

ASSIGNMENT OF PLANT VARIETY PROTECTION CERTIFICATES - Page 2

THE STATE OF TEXAS §

COUNTY OF DALLAS §

BEFORE ME, the undersigned authority, on this day personally appeared Assistant Vice President of TEXAS BANK FOR COOPERATIVES, known to me to be the person and officer whose name is subscribed to the foregoing instrument, and acknowledged to me that he executed the same for the purposes and consideration therein expressed, and in the capacity therein stated.

GIVEN UNDER MY HAND AND SEAL OF OFFICE this the 9th day of December, A.D., 1981.

NOTARY PUBLIC IN AND FOR

THE STATE OF TEXAS

Carolyn G. Furmer

My Commission Expires:

10-22-85

with the use of and symbolized by the Certificates, the same to be held and enjoyed by Buyer for its own use and enjoyment and the use and enjoyment of its successors, assigned by other legal representatives, and as it relates to the referenced Certificate, to enjoy to the end of the term for which said Certificates are granted or renewed, as fully and entirely as the same would have been held and enjoyed by TEXAS BANK FOR COOPERATIVES and GROWERS SEED ASSOCIATION if this assignment and sale had not been made, together with all claims for damages by reason of past infringement of said collateral or registrations with the right to sue for and collect the same for its own use and enjoyment of its successors, assigns or other legal representatives. Seller makes only those warranties and representations contained in Section 3.1 of the Asset Purchase Agreement dated December 9, 1981 between TEXAS BANK FOR COOPERATIVES and AGRIGENETICS CORPORATION.

IN WITNESS WHEREOF, I have hereunto set my hand and seal this 4th day of December , 1981.

ATTEST:

TEXAS BANK FOR COOPERATIVES

Assistant Corporate Secretary

By: Jerry Jongs
Assys front Vice President

ASSIGNMENT OF PLANT VARIETY PROTECTION CERTIFICATES - Page 3

# ASSIGNMENT OF CERTIFICATES AND APPLICATIONS OF PLANT VARIETY PROTECTION

WHEREAS, GROWERS SEED ASSOCIATION, a Marketing Cooperative Association organized under the terms of the State of Texas, whose address is P.O. Box 1656, Lubbock, Texas 79408, did make applications for Certificates of Plant Variety Protection with the Plant Variety Protection Office of the United States Department of Agriculture which Applications and Certificates are numbered and bear the dates as follows:

7400089	November 24, 1975	for 'GSA 71'
<b>7</b> 6TQ007	March 18, 1977	for 'GSA 75'
7100051	September 30, 1974	for Blanco 3363
7400088	November 24, 1975	for Stripper 31A
7900071	April 24, 1980	for 'GSA 74'
7900072	June 19, 1980	for 'GSA 78'

WHEREAS, GROWERS SEED ASSOCIATION sold, assigned, transferred and sent over to the TEXAS BANK FOR COOPERATIVES, a corporation organized under the laws of the United States of America, whose mailing address is P.O. Box 1424, Houston, Texas 77001, all right, title and interest in and to the said Applications and Certificates of Plant Variety Protection pursuant to an assignment dated July 28, 1981;

WHEREAS, TEXAS BANK FOR COOPERATIVES is now the sole and exclusive owner of said Applications and Certificates of Plant Variety Protection, and all interests therein, to and under the same and has the sole right to make this assignment;

WHEREAS, AGRIGENETICS CORPORATION, a corporation organized under the laws of the State of New Mexico, whose mailing address is 624 27th Street, Lubbock, Texas 79404, is desirous of acquiring the entire

right, title and interest in and to the said Applications and Certificates of Plant Variety Protection; and

WHEREAS, GROWERS SEED ASSOCIATION acknowledges TEXAS BANK FOR COOPERATIVES' right to assign the said Applications and Certificates of Plant Variety Protection and GROWERS SEED ASSOCIATION desires to join in the assignment of all right, title and interest in and to the said Applications and Certificates of Plant Variety Protection in order to transfer any and all right, title or interest it may have in the same to AGRIGENETICS CORPORATION and to resolve any uncertainty which may exist as to the true and lawful owner of the said Applications and Certificates of Plant Variety Protection (e.g. **AGRIGENETICS** CORPORATION);

NOW, THEREFORE, in consideration of and exchange for the sum of One and No/100 Dollars (\$1.00) and other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, GROWERS SEED ASSOCIATION, has sold, assigned, transferred and sent over to AGRIGENETICS CORPORATION, all its right, title and interest in and to the said Applications and Certificates of Plant Variety Protection, the same to be held and enjoyed by the AGRIGENETICS CORPORATION for its own use and enjoyment and the use and enjoyment of its successors, assigns or other legal representatives, to the end of the term for which said Applications and Certificates of Plant Variety Protection are granted or reissued, as fully and entirely as the same would have been held and enjoyed by GROWERS SEED ASSOCIATION and the TEXAS BANK FOR COOPERATIVES if this assignment and sale had not been made, together with all claims for damages by reason of past infringement of said Applications and Certificates with the right to

sue for and collect the same for its own use and enjoyment and for the use and enjoyment of its successors, assigns or other legal representatives.

Growers warrants and represents the following, to-wit:

- (i) To the best knowledge and belief of Growers, the Bank has validly and lawfully taken possession of the said Applications and Certificates of Plant Variety Protection pursuant to applicable provisions of the Texas Business and Commerce Code and agreements with Growers;
- (ii) To the best knowledge and belief of Growers, the Bank's security interest giving rise to its possession of the said Applications and Certificates of Plant Variety Protection was a valid, prior and perfected security interest; and
- (iii) To the best knowledge and belief of Growers, other than those previously communicated to Buyer in writing, there are no persons other than Growers or the Bank who have had or presently have any interest in the said Applications and Certificates of Plant Variety Protection nor does there exist any other facts which prevent Buyer from obtaining, pursuant to the terms, the execution and the delivery of this Bill of Sale, good and marketable title to the said Applications and Certificates of Plant Variety Protection, free and clear of all liens, pledges, charges and encumbrances whatsoever.

#### GROWERS SEED ASSOCIATION

By: R & M & Callerton

ts: chama of Board

THE STATE OF TEXAS SECOUNTY OF LUBBOCK

BEFORE ME, the undersigned authority, on this day personally liminary appeared R.D. Mc CALLISTER, OF BEARD of GROWERS SEED ASSOCIATION, a cooperative association, who acknowledged to me that he executed the above and foregoing instrument as the act and deed of said association and for the purposes and consideration therein expressed and in the capacity therein stated.

GIVEN UNDER MY HAND AND SEAL OF OFFICE, this the \_// day of December, 1981.

NOTARY PUBLIC IN AND FOR THE STATE OF TEXAS

My commission expires:

4-3-85

STEPHEN L. SHANKLIN

ASSIGNMENT OF CERTIFICATES AND APPLICATIONS OF PLANT VARIETY PROTECTION - Page 4

1 1 1 2 1 2 - 9-82

# CERTIFICATES AND APPLICATIONS OF PLANT VARIETY PROTECTION ASSIGNMENT AND SECURITY AGREEMENT

### I. Parties, Collateral, and Other Obligations

THIS SECURITY AGREEMENT dated December 9, 1981 between AGRIGENETICS CORPORATION, a corporation duly organized under the laws of the State of New Mexico (the "Corporation"), having a mailing address at 14142 W. 20th Avenue, Golden, Colorado 80401 and the TEXAS BANK FOR COOPERATIVES (the "Bank") having a mailing address at P.O. Box 1424, Houston, Harris County, Texas.

PURSUANT to the terms and provisions of the Repayment Agreement of even date herewith between Corporation and the Bank, the Bank has agreed to lend to Corporation the sum of One Million Five Hundred Thousand and no/100 Dollars (\$1,500,000.00) at any time outstanding, and part of the inducement for the Bank to make such loan is the execution by Corporation of the Security Agreement of even date herewith (the "Agreement"), and this Security Agreement for filing with the Plant Variety Protection Office of the United States Department of Agriculture, such indebtednesses to be evidenced by promissory note ("Note") of even date herewith payable to the order of the Bank, and payment of the Note and any other Obligations of Corporation to the Bank pursuant to the Repayment Agreement of even date herewith are to be secured by, among other things, the security interests created hereby.

NOW, THEREFORE, in consideration of the premises, and as an inducement to the Bank to enter into the Repayment Agreement and to make the loans contemplated thereby, the Corporation hereby agrees with the Bank as follows: In order to secure payment of the Note and other Obligations (as defined in the Agreement), the Corporation hereby pledges, assigns and grants to the Bank a continuing security interest in and lien on all of the Applications and Certificates of Plant Variety Protection made with the Plant Variety Protection Office of the U.S. Department of Agriculture which Applications and Certificates are numbered and bear the dates as listed below with the right to sue, in Bank's own name or joined with Corporation, for past, present, or future violations of the rights in the protected varieties.

7400089 76TQ007 November 24, 1975 March 18, 1977

for 'GSA 71' for 'GSA 75'

7100051	September 30, 1974	for Blanco 3363
7400088	November 24, 1975	for Stripper 31A
7900071	April 24, 1980	for 'GSA 74'
7900072	June 19, 1980	for 'GSA 8'

### II. Prosecution and Maintenance of Trademarks

Corporation shall diligently apply for, prosecute, maintain and preserve its rights in the above trademarks, all expenses of which shall be borne by Corporation.

#### III. Termination

Upon the payment in full of all accounts due under the Note and all other Obligations of the Corporation due under the Agreement and this Security Agreement to the Bank, the Bank shall execute and deliver to the Corporation all such documents and instruments as shall be necessary to evidence termination of this Agreement.

IN WITNESS WHEREOF, the parties hereto have caused these presents to be duly executed by their authorized representatives as of the date first above written.

ATTEST:	AGRIGENETICS CORPORATION
M Secretary	By James Sienary
THE STATE OF TEXAS	
COUNTY OF Dallas	
BEFORE ME, the undersigned authorical appeared Tames O. Silbreath Tresubscribed to the foregoing instrument, and executed the same for the purposes and consider the capacity therein shown.	, Vice President of Agrigenetics on and officer whose name is acknowledged to me that he
GIVEN UNDER MY HAND AND SEAL OF OF of <u>December</u> , A.D., 1981.	FICE this the day
	Carolyn J. Falmer Notary Public in and for County, TEXAS.

Carolyn G. Farmer Expires: 10-22-85

THE STATE OF TEXAS
COUNTY OF HARRIS

BEFORE ME, the undersigned authority, on this day personally appeared James O. Gilbreath, Jr., Vice President of Agrigenetics Corporation, known to me to be the person and officer whose name is subscribed to the foregoing instrument, and acknowledged to me that he executed the same for the purposes and consideration therein expressed, and in the capacity therein shown.

GIVEN UNDER MY HAND AND SEAL OF OFFICE this the 9th day of February, A.D., 1982.

Notary Public in and for Harris County, T E X A S.

HELEN PAVLAS
Notary Public State of Texas
My Commission Expires January 31, 1985

onded by L. Alexander Lovett, Lawyers Surety Corp.

State of Colorado		SS
County of Boulder	)	

## CERTIFICATE

I, Andrea Ryder, a notary public in and for the aforesaid county and state, hereby certify that the attached photocopy of an Assignment of Certificates and Applications of Plant Variety Protection is a true copy of the original thereof.

Motary Public Rydon

My commission expires August 16, 1988.

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# ASSIGNMENT OF CERTIFICATES AND APPLICATIONS OF PLANT VARIETY PROTECTION

WHEREAS, GROWERS SEED ASSOCIATION, a Marketing Cooperative Association organized under the terms of the State of Texas, whose address is P.O. Box 1656, Lubbock, Texas 79408, did make applications for Certificates of Plant Variety Protection with the Plant Variety Protection Office of the United States Department of Agriculture which Applications and Certificates are numbered and bear the dates as follows:

7400089	November 24, 1975	for 'GSA 71'
76TQ007	March 18, 1977	for 'GSA 75'
7100051	September 30, 1974	for Blanco 3363
7400088	November 24, 1975	for Stripper 31A
7900071	April 24, 1980	for 'GSA 74'
7900072	June 19, 1980	for 'GSA 78'

WHEREAS, GROWERS SEED ASSOCIATION sold, assigned, transferred and sent over to the TEXAS BANK FOR COOPERATIVES, a corporation organized under the laws of the United States of America, whose mailing address is P.O. Box 1424, Houston, Texas 77001, all right, title and interest in and to the said Applications and Certificates of Plant Variety Protection pursuant to an assignment dated July 28, 1981;

WHEREAS, TEXAS BANK FOR COOPERATIVES is now the sole and exclusive owner of said Applications and Certificates of Plant Variety Protection, and all interests therein, to and under the same and has the sole right to make this assignment;

WHEREAS, AGRIGENETICS CORPORATION, a corporation organized under the laws of the State of New Mexico, whose mailing address is 624 27th Street, Lubbock, Texas 79404, is desirous of acquiring the entire

ASSIGNMENT OF CERTIFICATES AND APPLICATIONS OF PLANT VARIETY PROTECTION - Page 1

WHEREAS, GROWERS SEED ASSOCIATION acknowledges TEXAS BANK FOR COOPERATIVES' right to assign the said Applications and Certificates of Plant Variety Protection and GROWERS SEED ASSOCIATION desires to join in the assignment of all right, title and interest in and to the said Applications and Certificates of Plant Variety Protection in order to transfer any and all right, title or interest it may have in the same to AGRIGENETICS CORPORATION and to resolve any uncertainty which may exist as to the true and lawful owner of the said Applications and Certificates of Plant Variety Protection (e.g. AGRIGENETICS CORPORATION);

NOW, THEREFORE, in consideration of and exchange for the sum of One and No/100 Dollars (\$1.00) and other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, GROWERS SEED ASSOCIATION, has sold, assigned, transferred and sent over to AGRIGENETICS CORPORATION, all its right, title and interest in and to the said Applications and Certificates of Plant Variety Protection, the same to be held and enjoyed by the AGRIGENETICS CORPORATION for its own use and enjoyment and the use and enjoyment of its successors, assigns or other legal representatives, to the end of the term for which said Applications and Certificates of Plant Variety Protection are granted or reissued, as fully and entirely as the same would have been held and enjoyed by GROWERS SEED ASSOCIATION and the TEXAS BANK FOR COOPERATIVES if this assignment and sale had not been made, together with all claims for damages by reason of past infringement of said Applications and Certificates with the right to

ASSIGNMENT OF CERTIFICATES AND APPLICATIONS OF PLANT VARIETY PROTECTION - Page 2

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- (i) To the best knowledge and belief of Growers, the Bank has validly and lawfully taken possession of the said Applications and Certificates of Plant Variety Protection pursuant to applicable provisions of the Texas Business and Commerce Code and agreements with Growers;
- (ii) To the best knowledge and belief of Growers, the Bank's security interest giving rise to its possession of the said Applications and Certificates of Plant Variety Protection was a valid, prior and perfected\_security interest; and
- (iii) To the best knowledge and belief of Growers, other than those previously communicated to Buyer in writing, there are no persons other than Growers or the Bank who have had or presently have any interest in the said Applications and Certificates of Plant Variety Protection nor does there exist any other facts which prevent Buyer from obtaining, pursuant to the terms, the execution and the delivery of this Bill of Sale, good and marketable title to the said Applications and Certificates of Plant Variety Protection, free and clear of all liens, pledges, charges and encumbrances whatsoever.

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ASSIGNMENT OF CERTIFICATES AND APPLICATIONS OF PLANT VARIETY PROTECTION - Page 3

GROWERS SEED ASSOCIATION

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THE STATE OF TEXAS
COUNTY OF LUBBOCK

BEFORE ME, the undersigned authority, on this day personally Lypnamas appeared R.D. Mc CALLISTER, OF BEARS OF GROWERS SEED ASSOCIATION, a cooperative association, who acknowledged to me that he executed the above and foregoing instrument as the act and deed of said association and for the purposes and consideration therein expressed and in the capacity therein stated.

GIVEN UNDER MY HAND AND SEAL OF OFFICE, this the \_/) day of December, 1981.

NOTARY PUBLIC IN AND FOR THE STATE OF TEXAS

My commission expires:

4-3-85

STEPHEN L. SHANKLIN

ASSIGNMENT OF CERTIFICATES AND APPLICATIONS OF PLANT VARIETY PROTECTION - Page 4

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State of Colorado	) ) ss
County of Boulder	)

#### CERTIFICATE

I, Andrea Ryder, a notary public in and for the aforesaid county and state, hereby certify that the attached photocopy of the Articles of Merger of Agrigenetics Corporation (New Mexico) into Agrigenetics Corporation (Delaware) is a true copy of the original thereof.

Notary Public

My commission expires August 16, 1988.

# CERTIFICATE OF COMPARISON OF

AGRIGENETICS CORPORATION

#### STATE OF NEW MEXICO

I hereby certify that the annexed is a true and complete copy of the <u>12</u> page document on file in this office.

DATED: <u>August 31, 19</u>82

STATE CORPORATION COMMISSION

RY

This Certification Stamp Replaces Our Previous

Certification System.

NMSA 53-18-4 and 53-8-93 Effective 11-1-80

In Testimony Whereof, the State Corporation Commission of the State of New Mexico has caused this certificate to be signed by its Chairman and the seal of said Commission to be affixed at the City of Santa Fe

July Sema Chairman

AGRIGENETICS CORPORATION ' (New Mexico)

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CORPORATION FRANCHISE TAX Day

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AGRIGENETICS CORPORATION (Delaware)

The undersigned officers of Agrigenetics Corporation, a New Mexico corporation, ("Agrigenetics New Mexico") and of Agrigenetics Corporation, a Delaware corporation, ("Agrigenctics Delaware") hereby certify as follows:

- Agrigenetics New Mexico and Agrigenetics Delaware duly adopted and entered into the Plan and Agreement of Merger, dated August 2, 1982, a copy of which is attached hereto.
- $\Lambda s$  to  $\Lambda grigenetics$  New Mexico there are and were at all times relevant to the merger 9,580,964 shares of Common Stock, \$.10 par value, outstanding and no shares of Special Class A stock outstanding.
- 3. As to Agrigenetics Delaware, there were no shares outstanding at the time of the approval of the Plan and Agreement of Merger.
- 4. As to Agrigenetics New Mexico 8,281,485 shares of Common Stock, \$.10 par value, voted for the Plan and Agreement of Merger and no shares voted against the Plan and Agreement of Merger.
- 5. As to Agrigenetics Delaware the Plan and Agreement of Merger was duly approved by the Doard of Directors pursuant to Delaware law prior to the issuance of any stock.
- 6. Agrigenetics Delaware hereby agrees that it may be served with process in New Mexico in any proceeding for the enforcement of any obligation of Agrigenetics New Mexico and

in any proceeding for the enforcement of the property of

AUG 3 1 1982

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N. M. ST CORP. COMM.

OORP. - FRANCHISE YAX DEPTS.

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dissenting shareholder of Agrigenetics New Mexico against Agrigenetics Delaware.

- 7. Agrigenetics Delaware hereby irrevocably appoints the Secretary of State of New Mexico as its agent to accept service of process in any proceeding described in the preceding paragraph.
- 8. Agrigenetics Delaware will promptly pay to any dissenting shareholders of Agrigenetics New Mexico the amount, if any, to which such dissenting shareholder is entitled under the provisions of the New Mexico Business Corporation Act with respect to the rights of dissenting shareholders.

IN WITNESS WHEREOF, we have executed on behalf of Agrigenetics New Mexico and Agrigenetics Delaware, these Articles of Merger this  $31^{\frac{1}{5}}$  day of August, 1982.

AGRIGENETICS CORPORATION A New Mexico Corporation

By Maria Valuera

Socretary

AGRIGENETICS CORPORATION A Delaware Corporation

By Mecroay Colinson

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CORP. . FRANCHISE TAX DEPTS.

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#### <u>Verification</u>

STATE OF NEW MEXICO ) ) SS COUNTY OF SANTA FE

JAMES B. ALLEY, JR., Secretary of Agrigenetics Corporation, a New Mexico corporation, and Secretary of Agrigenetics Corporation, a Delaware corporation, states that he has read the foregoing Articles of Merger and that the statements therein are true and correct to the best of his knowledge and belief.

James B. Alley, Jr.

Subscribed and sworn to before me this 3/54 day of August, 1982.

Notary Public Janes

My Commission expires:

8-22-83

11 1992

CORP. FRANCHISE TAX DEPTS.

### PLAN AND AGREEMENT OF MERGER

THIS PLAN AND AGREEMENT OF MERGER ("Merger Agreement") is made and entered into this 2nd day of August, 1982 by and between AGRIGENETICS CORPORATION, a New Mexico corporation ("Agrigenetics New Mexico"), and AGRIGENETICS CORPORATION, a Delaware corporation and a wholly owned subsidiary of Agrigenetics New Mexico ("Agrigenetics Delaware").

UHIEREAS, Agrigenetics New Mexico is a corporation duly organized and existing under the laws of the State of New Mexico;

WHEREAS, Agrigenetics Delaware is a corporation duly organized and existing under the laws of the State of Delaware;

WHEREAS, on the date of this Merger Agreement Agrigenetics New Mexico has authority to issue twenty million four hundred fifty thousand shares, consisting of four hundred fifty thousand shares of Special Class A Stock, par value \$.10 per share ("New Mexico Special Class A Stock"), of which no shares are issued and outstanding; and twenty million shares of Common Stock, par value \$.10 per share ("New Mexico Common Stock"), of which 9,580,964 shares are issued and outstanding;

WHEREAS, on the date of this Merger Agreement Agrigenetics Delaware has authority to issue twenty-one million shares, consisting of one million shares of Special Class A Stock \$.10 par value ("Delaware Special Class A Stock"), of which no shares are issued and outstanding; and twenty million shares of Common Stock, par value \$.10 per share ("Delaware Common Stock"), of which ten shares are issued and outstanding and owned by Agrigenetics New Mexico;

WHEREAS, the respective Boards of Directors of Agrigenetics New Mexico and Agrigenetics Delaware have determined that it is advisable and to the advantage of said two corporations that Agrigenetics New Mexico merge into Agrigenetics Delaware upon the terms and conditions herein provided for the purpose of effecting the reincorporation of Agrigenetics New Mexico in the State of Delaware; and

WHEREAS, the respective Boards of Directors of Agrigenetics New Mexico and Agrigenetics Delaware have approved this Merger Agreement and the board of directors of Agrigenetics New Mexico has directed that this Merger Agreement be submitted to a vote of the sharksoftders agrigenetics New Mexico;

WW.HISE TALLERY

- NOW, THEREFORE, in consideration of the mutual agreements and covenants set forth herein, Agrigenetics New Mexico and Agrigenetics Delaware hereby agree to merge as follows:
- 1. Merger. Agrigenetics New Mexico shall be merged with and into Agrigenetics Delaware, and Agrigenetics Delaware shall survive the merger ("Merger"). The Merger shall become effective upon the time and date of filing of such documents as may be required under applicable law ("Effective Date").
- 2. Directors and Officers and Governing Documents. The directors and officers of Agrigenetics Delaware shall be the same upon the Effective Date as they are immediately prior thereto. The Certificate of Incorporation of Agrigenetics Delaware, as in effect on the Effective Date, shall continue to be the Certificate of Incorporation of Agrigenetics Delaware as the surviving corporation without change or amendment until further amended in accordance with the provisions thereof and applicable laws. The By-Laws of Agrigenetics Delaware, as in effect on the Effective Date, shall continue to be the By-Laws of Agrigenetics Delaware as the surviving corporation without change or amendment until further amended in accordance with the provisions thereof and applicable laws.
- 3. Succession. On the Effective Date, Agrigenetics Delaware shall succeed to all the rights and obligations of Agrigenetics New Mexico and shall possess all the rights, privileges, powers and franchises as well of a public as of a private nature, and be subject to all the restrictions, disabilities and duties of Agrigenetics New Mexico; and all and singular, the rights, privileges, powers and franchises of Agrigenetics New Mexico, and all property, real, personal and mixed, and all debts due to Agrigenetics New Mexico on whatever account, as well for stock subscriptions as all other things in action or belonging to Agrigenetics New Mexico shall be vested in Agrigenetics Delaware; and all property, rights, privileges, powers and franchises, and all and every other interest shall be thereafter as effectually the property of Agrigenetics Delaware as they were of Agrigenetics New Mexico, and the title to any real estate vested by deed or otherwise in Agrigenetics New Mexico, shall not revert or be in any way impaired; but all rights of creditors and all liens upon any property of Agrigenetics New Mexico shall be preserved unimpaired, and all debts, liabilities and duties of Agrigenetics New Mexico shall thenceforth attach to Agrigenetics Delaware, and may be enforced against it to the same extent as if said debts, liabilities and duties had been incurred or contracted by it. All corporate acts, plans, policies, agreements, arrangements, approvals and authorizations of Agrigenetics New Mexico, its shareholder; board of directors and committees thereof, officers and agents which were valid and effective immediately prior

to the Effective Date, shall be taken for all purposes as the acts, plans, policies, agreements, arrangements, approvals and authorizations of Agrigenetics Delaware and shall be as effective and binding thereon as the same were with respect to Agrigenetics New Mexico. The employees and agents of Agrigenetics New Mexico shall become the employees and agents of Agrigenetics Delaware and continue to be entitled to the same rights and benefits which they enjoyed as employees and agents of Agrigenetics New Mexico. The requirements of any plans or agreements of Agrigenetics New Mexico involving the issuance or purchase by Agrigenetics New Mexico of certain shares of its capital stock shall be satisfied by the issuance or purchase of a like number of shares of Agrigenetics Delaware.

- 4. Further Assurances. From time to time, as and when required by Agrigenetics Delaware or by its successors and assigns, there shall be executed and delivered on behalf of Agrigenetics New Mexico such deeds and other instruments, and there shall be taken or caused to be taken by it all such further and other action, as shall be appropriate or necessary in order to vest, perfect or confirm, of record or otherwise, in Agrigenetics Delaware the title to and possession of all property, interests, assets, rights, privileges, immunities, powers, franchises and authority of Agrigenetics New Mexico, and otherwise to carry out the purposes of this derger Agreement, and the officers and directors of Agrigenetics Delaware are fully authorized in the name and on behalf of Agrigenetics New Mexico or otherwise to take any and all such action and to execute and deliver any and all such deeds and other instruments.
- 5. Stock of Agrigenetics New Mexico. Upon the Effective Date, by virtue of the Merger and without any action on the part of the holder hereof, each share of the New Mexico Common Stock outstanding immediately prior thereto shall be changed and converted into and shall be one fully paid and nonassessable share of the Delaware Common Stock.
- Date, all of the outstanding certificates which immediately prior to the Effective Date represented shares of New Mexico Common Stock shall be deemed for all purposes to evidence ownership of, and to represent, shares of Delaware Common Stock into which the shares of New Mexico Common Stock formerly represented by such certificates have been converted as herein provided. The registered owner on the books and records of Agrigenetics Delaware or its transfer agents of any such outstanding stock certificate shall, until such certificate shall have been surrendered for transfer or otherwise accounted for to Agrigenetics Delaware or its transfer agents, have and be entitled to exercise any voting and other rights with respect to and to receive any dividend and other distributions upon the shares of Agrigenetics

Delaware Common Stock evidenced by such outstanding certificate as above provided.

- 7. Outstanding Options (Class A). Forthwith upon the Effective Date, each outstanding option to purchase shares of New Mexico Special Class A Stock granted under Agrigenetics New Mexico's Incentive Stock Option Plan (the "Plan") shall be converted into and become an option to purchase the same number of shares of Delaware Special Class A Stock at the same option price per share, and upon the same terms and subject to the same conditions as set forth in the Plan, as in effect on the Effective Date. The same number of shares of Delaware Special Class A Stock shall be reserved for purposes of the Plan as is equal to the number of shares of New Mexico Special Class A Stock so reserved as of the Effective Date. As of the Effective Date, Agrigenetics Delaware shall assume all obligations of Agrigenetics New Mexico under the Plan and the outstanding options or portions thereof granted pursuant to the Plan.
- 8. Outstanding Warrants (Common). Forthwith upon the Effective Date, any outstanding warrants or other options to purchase shares of New Mexico Common Stock shall entitle the holders to purchase the same number of shares of Delaware Common Stock upon the same terms and conditions as provided in the outstanding warrants or other applicable documents to which Agrigenetics New Mexico is a party.
- 9. Employee Benefit Plans. As of the Effective Date, Agrigenetics Delaware hereby assumes all obligations of Agrigenetics New Mexico under any and all employee benefit plans in effect as of said date or with respect to which employee rights or accrued benefits are outstanding as of said date.
- 10. Common Stock of Agrigenetics Delaware. Forthwith upon the Effective Date, the ten shares of Delaware Common Stock presently issued and outstanding in the name of Agrigenetics New Mexico shall be cancelled and retired and resume the status of authorized and unissued shares of Delaware Common Stock, and no shares of Delaware Common Stock or other securites of Agrigenetics Delaware shall be issued in respect thereof.
- 11. Covenants of Agrigenetics Delaware. Agrigenetics Delaware covenants and agrees that it will, on or before the Effective Date:
  - (a) Qualify to do business as a foreign corporation in the State of New Mexico, and in connection therewith irrevocably appoint an agent for service of process as required under the provision of Section 5:1-17-9 of the New Mexico Business Corporation Act.

- (b) File any and all documents with the New Mexico State Corporation Commission necessary to the assumption by Agrigenetics Delaware of all the franchise tax liabilities of Agrigenetics New Mexico. Qualify to do business as a foreign corporation in the states where Agrigenetics New Mexico is qualified to do business and such other states as the board of directors deems necessary or desirable. 12. Book Entries. As of the Effective Date, entries shall be  $\frac{\text{Book Entries}}{\text{made upon the books of Agrigenetics Delaware in}}$
- accordance with the following:
  - (a) The assets and liabilities of Agrigenetics Delaware shall be recorded at the same amounts at which they were carried on the books of Agrigenetics New Mexico immediately prior to the Effective Date, with appropriate adjustments to reflect the retirement of the ten shares of Delaware Common Stock presently issued and outstanding.
  - (b) There shall be credited to the Common Stock account of Agrigenetics Delaware the aggregate amount of the par value of all shares of Delaware Common Stock resulting from the conversion of the outstanding New Mexico Common Stock pursuant to the Merger.
  - (c) There shall be credited to the additional paid-in capital account of Agrigenetics Delaware the aggregate of the amount carried in the additional paid-in capital account of Agrigenetics New Mexico immediately prior to the Effective Date.
  - (d) There shall be credited to the retained carnings account of Agrigenetics Delaware the aggregate of the amount carried in the retained earnings account of Agrigenetics New Mexico immediately prior to the Effective Date.
- Amendment. At any time before or after approval and adoption by the shareholders of Agrigenetics New Mexico and prior to the Effective Date, the Merger Agreement may be amended in any manner (except that Section 5 may not be amended without the approval of the shareholders of Agrigenetics New Mexico) as may be determined in the judgment of the respective Boards of Directors of Agrigenetics Delaware and Agrigenetics New Mexico to be necessary, desirable or expedient in order to clarify the intention of the parties hereto or to effect or facilitate the purposes and intent of this Merger Agreement; provided, however, that such amendment may not materially adversely affect the rights and interests of the stockholders of Agrigenetics New Mexico.

- 14. Abandonment. At any time before the Effective Date, this Merger Agreement may be terminated and the Merger may be abandoned by the board of directors of either Agrigenetics Delaware or Agrigenetics New Mexico or both, notwithstanding approval of this Merger Agreement by the stockholders of Agrigenetics Delaware or the shareholders of Agrigenetics New Mexico or both.
- 15. Counterparts. In order to facilitate the filing and recording of this Merger Agreement the same may be executed in two or more counterparts, each of which shall be deemed to be an original and the same agreement.

IN WITNESS WHEREOF, this Merger Agreement, having first been duly approved by resolution of the boards of directors of Agrigenetics New Mexico and Agrigenetics Delaware, is hereby executed on behalf of each of said two corporations by their respective officers thereunto duly authorized, on the date first above written.

AGRIGENETICS CORPORATION A New Mexico Corporation

By:

David J. Padwa

Chairman of the Board and Chief Executive Officer

ATTEST:

By:

Yames B. Alley, Jr Secretary and General Counsel

AGRIGENETICS CORPORATION A Delaware Corporation

By:

David J. Padwa

Chairman of the Board and Chief Executive Officer

ATTEST:

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James B. Alley, Jr.

Secretary and General Counsel

### Certificate of Secretary

I, James B. Alley, Jr., Secretary of AGRIGENETICS CORPORATION, a Delaware corporation, hereby certify, as such Secretary, that no vote of the stockholders of said corporation was required with respect to the merger described in the Plan and Agreement of Merger to which this Certificate is attached and that said Plan and Agreement of Merger has been adopted pursuant to Subsection 251(f) of the General Corporation Law of the State of Delaware and that as of the date of this Certificate, the outstanding shares of said corporation were such as to render that subsection applicable.

IN WITNESS WHEREOF, I have executed this Certificate on behalf of said corporation this 2nd day of August, 1982.

James B. Alley, Jr.

ME 41 885

## Certificate of Secretary

I, James B. Alley, Jr., Secretary of AGRIGENETICS CORPORATION, a New Mexico corporation ("Agrigenetics New Mexico"), do hereby certify, as such Secretary, that the Plan and Agreement of Merger to which this Certificate is attached, after having been first duly adopted and executed by Agrigenetics New Mexico and AGRIGENETICS CORPORATION, a Delaware corporation, was duly submitted to the stockholders of Agrigenetics New Mexico at a meeting of stockholders called for the purpose of acting on said Plan and Agreement of Herger after due notice of the time, place and purpose of said meeting was mailed to each holder of common stock of Agrigenetics New Mexico at his address as it appears on the records of Agrigenetics New Mexico in the manner provided by New Mexico law, and that at said meeting the Plan and Agreement of Herger was considered and a vote taken for its adoption or rejection and that at said meeting at least two-thirds of the outstanding common stock of Agrigenetics New Mexico entitled to vote thereon was voted for the adoption of said Plan and Agreement of Merger, and that at the time of said meeting no Special Class A stock was outstanding, and that thereby said Plan and Agreement of Merger was at said meeting duly adopted as the act of the stockholders of Agrigenetics New Mexico and as the agreement and act of

IN WITNESS WHEREOF, I have executed this Certificate on behalf of said corporation this 27th day of August, 1982.

James B. Alley, Jr.

## Second Execution of Plan and Agreement of Merger

The foregoing Plan and Agreement of Merger having been duly adopted and executed by AGRIGENETICS CORPORATION, a Delaware corporation ("Agrigenetics Delaware"), and by AGRIGENETICS CORPORATION, a New Mexico corporation ("Agrigenetics New Mexico"), in accordance with the General Corporation Law of the State of Delaware, and having been duly submitted to the stockholders of Agrigenetics New Mexico and having been duly adopted by the requisite vote of the outstanding stock of said corporation entitled to vote thereon, and no vote of the stockholders of Agrigenetics Delaware having been required, and those facts having been certified on said Plan and Agreement of Merger by the Secretary of Agrigenetics Delaware and by the Secretary of Agrigenetics Delaware and the Chairman of the Board of Agrigenetics Delaware and the Chairman of the Board of Agrigenetics New Mexico do hereby execute said Plan and Agreement of Merger in accordance with the General Corporation Law of the State of Delaware, and the Secretary Of Agrigenetics Delaware and the Secretary of Agrigenetics New Mexico do hereby attest such execution of their respective corporations as the respective act, deed and agreement of each of said corporations, on this 27th day of August, 1982.

AGRIGENETICS CORPORATION A Delaware Corporation

y Gospa

David J. Padwa

Chairman of the Board

ATTEST:

Junes B. Alley, Jr.

Sycretary

AGRIGENETICS CORPORATION A New Mexico Corporation

Chairman of the Board

David J. Padwa

ATTEST:

James B. Alley, Jr.

Secretary

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NOTE: Full merger documentation is on file in transfer file.

For: Cotton Variety GSC 30 Certificate No.: 8800048 Issue Date: July 29, 1988 Owner: Agrigenetics Corporation 710005

## REQUEST FOR RECORDATION OF TITLE DOCUMENTS

Commissioner of the Plant
Variety Protection Office
United States Department
of Agriculture
10301 Baltimore Blvd.
Beltsville, MD 20705-2351

sir:

i Kalandar

Enclosed please find notarially certified copies of the following merger documents:

- merger of Agrigenetics Corporation, a New Mexico Corporation into Agrigenetics Corporation, a Delaware Corporation; and
- 2) merger of Agrigenetics Corporation, a Delaware Corporation into The Lubrizol Corporation Corporation, an Ohio Corporation.

Please record these documents against the above Plant Variety Protection Certificates.

Title to said certificates should now be reflected in Lubrizol Corporation, an Ohio Corporation.

Enclosed is a check in the amount of \$275.00 for the recording fee (\$25.00 for each certificate).

Respectfully submitted,

Ellen P. Winner

Ellen P. Winner Patent Office Reg. No. 28,547

Greenlee and Associates 5370 Manhattan Circle Suite 201 Boulder, CO 80303 (303) 499-8080

leb: 9/28/89

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Plant Variety
Projection Ofc.

Projection Ofc.

STATE OF COLORADO )
COUNTY OF BOULDER )

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I, Andrea Ryder, notary public for the above county and state, certify that the attached copies of merger documents showing merger of Agrigenetics Corporation, a New Mexico Corporation, into Agrigenetics Corporation, a Delaware Corporation; and Agrigenetics Corporation, a Delaware Corporation into The Lubrizol Corporation, an Ohio Corporation are true and correct copies of the originals thereof, which were filed with the Delaware Secretary of State.

Subscribed and sworn to before me in the County of Boulder, State of Colorado, this  $\frac{2\zeta^{+2}}{2}$  day of September, 1989.

My Commission expires August 16, 1992

Carárea Lydin

#### IN THE UNITED STATES DEPARTMENT OF AGRICULTURE

For: Cotton Variety Blanco 3363 Certificate No.: 7100051 Issue Date: September 30, 1974 Owner: Agrigenetics Corporation For: Cotton Variety Stripper 31A Certificate No.: 7400088 Issue Date: November 24, 1975 Owner: Agrigenetics Corporation For: Cotton Variety GSA 71 Certificate No.: 7400089 Issue Date: November 24, 1975 Owner: Agrigenetics Corporation For: Cotton Variety GSA 75 Certificate No.: 7605007 Issue Date: March 18, 1977 Owner: Agrigenetics Corporation Cotton Variety GSA 74 For: Certificate No.: 7900091
Issue Date: April 24, 1980
Owner: Agrigenetics Corporation For: Cotton Variety GSA 78 Certificate No.: 7900072 Issue Date: June 19, 1980 Owner: Agrigenetics Corporation For: Cotton Variety GSC 25 Certificate No.: 8400057 Issue Date: December 21, 1984 Owner: Agrigenetics Corporation Cotton Variety GSC 20 Certificate No.: 8400101 Issue Date: November 30, 1984 Owner: Agrigenetics Corporation For: Cotton Variety GSC 27 Certificate No.: 8700005 Issue Date: August 31, 1987 Owner: Agrigenetics Corporation Cotton Variety GSC 71 Certificate No.: 8700006
Issue Date: August 31, 1987 Owner: Agrigenetics Corporation

